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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,833	10/18/2000	Takashi Komura	CSC-023	3550
959 7:	590 10/24/2002			
LAHIVE & COCKFIELD			EXAMINER	
28 STATE STREET BOSTON, MA 02109			CHANEY, CAROL DIANE	
			ART UNIT	PAPER NUMBER
			1745	Λ
			DATE MAILED: 10/24/2002	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	· .	(A)				
	Application No.	Applicant(s)				
	09/691,833	KOMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Carol Chaney	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 30 J	l <u>uly 2002</u> .					
2a)⊠ This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application	l .					
4a) Of the above claim(s) <u>1-8 and 15-18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) ☐ Claim(s) <u>9-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on		OVED by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) □ Some * c) □ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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Election/Restrictions

Applicant's election of Group II, claims 9-14 in Paper No. 5, filed 30 July 2002 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 9-14 recite the limitation "deep portion". However, this is not a term of art, and there is insufficient antecedent basis for this limitation in the claims. Claims 9-14 are indefinite because the term "deep portion" does not particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regards to claim 9, distinctions between an "outlet side communications hole" and a "discharge hole" are not understood.

In claims 10 and 11, a "port of said...communication hole" is claimed. It is unclear what is intended by this term. A "port" is defined as "an opening", (see Webster's II New Riverside Dictionary) An opening in a hole is not understood.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

To the extent to which they are understood, claims 9, 10 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Guthrie et al., US Patent 6,403,247.

Guthrie et al. disclose a fuel cell system which includes two fuel cell units stacked horizontally. As shown in Figure 4, the fuel and air inlets and outlets are located on one face of the fuel cell, and are arranged to allow gases to flow across the individual fuel cells. With regards to claim 14, the air outlet is set at lowest portion of the fuel cell.

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To the extent to which they are understood, claims 9-11 are rejected under 35 U.S.C. 102(a) as being anticipated by Wariishi et al., JP 2000149977.

Wariishi et al. disclose a horizontally-oriented fuel cell stack. (See Figure 3) As seen in Figure 9, inlet and outlet openings are provided on the same fuel cell stack face (reference numeral 32). The second end plate (reference numeral 34) includes a communication passage, or "bypass flow passage". (Note paragraph 45 of English machine translation.)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Zeng, US Patent 6,461,754 discloses solid polymer electrolyte fuel cells with cooling pipe systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol Chaney whose telephone number is (703) 305-3777. The examiner can normally be reached on Mon - Fri 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 703-308-2383. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

> Carol Chaney Primary Examiner

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CC

October 20, 2002